

Data File : VL036008.D
Acq On : 25 Nov 2020 00:17
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Quant Time: Nov 25 01:50:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1141625	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3905005	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3636439	10.00	ppbv	-0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.39 95 2773518 10.74 ppbv -0.04
Spiked Amount 10.000 Range 65 - 135 Recovery = 107.40%

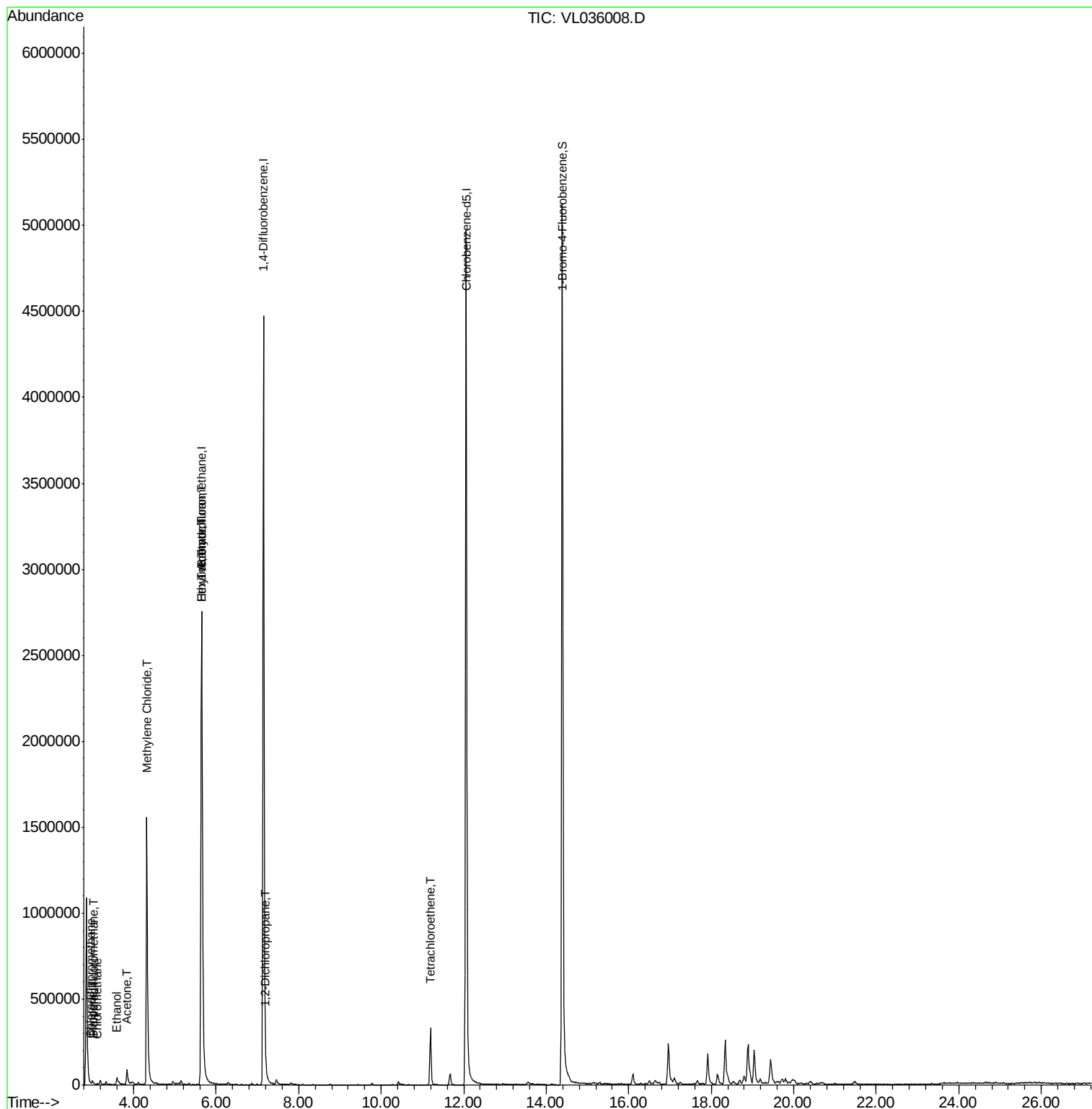
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	7126	0.033	ppbv	96
3) Chlorodifluoromethane	2.96	51	7536	0.055	ppbv #	80
4) Chloromethane	3.12	50	3438	0.052	ppbv	90
9) Propene	3.00	41	6551	0.131	ppbv	94
13) Ethanol	3.59	45	25936	2.389	ppbv #	35
15) Acetone	3.83	43	108681	0.890	ppbv #	87
20) Methylene Chloride	4.32	84	867763	10.100	ppbv	98
25) Ethyl Acetate	5.66	43	273700	1.138	ppbv #	72
26) Hexane	5.66	57	459485	3.465	ppbv #	45
39) 1,2-Dichloropropane	7.21	63	10901	0.112	ppbv #	33
41) Tetrahydrofuran	5.66	42	162270	2.254	ppbv #	37
52) Tetrachloroethene	11.19	164	89197	0.649	ppbv	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL036008.D

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ClientSampleId :

BFB

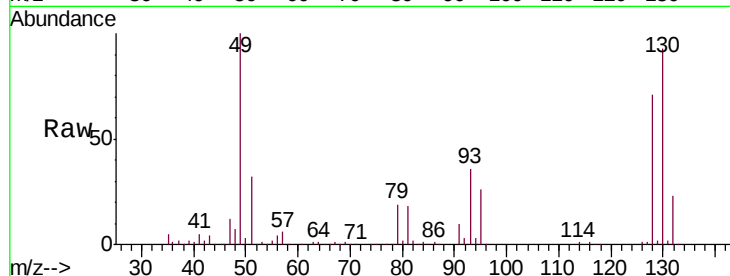
Tgt Ion: 49 Resp: 1141625

Ion Ratio Lower Upper

49 100

128 77.9 41.5 124.6

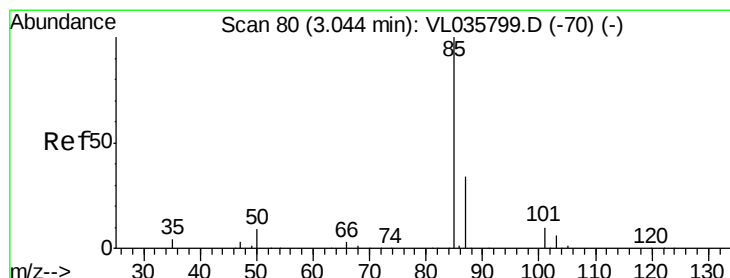
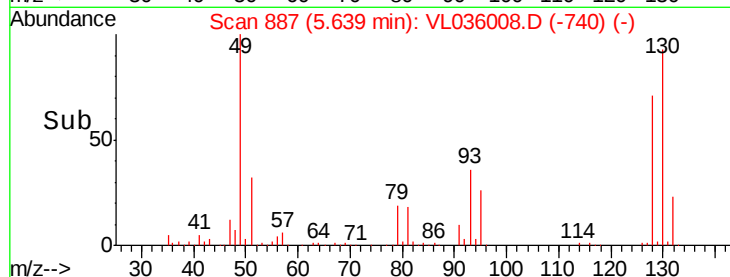
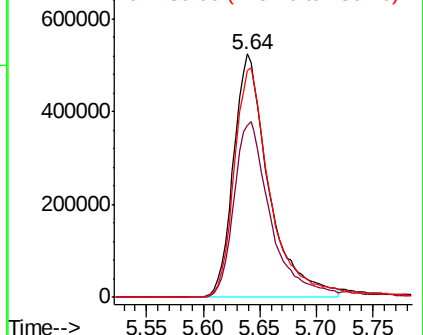
130 99.2 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.033 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL036008.D

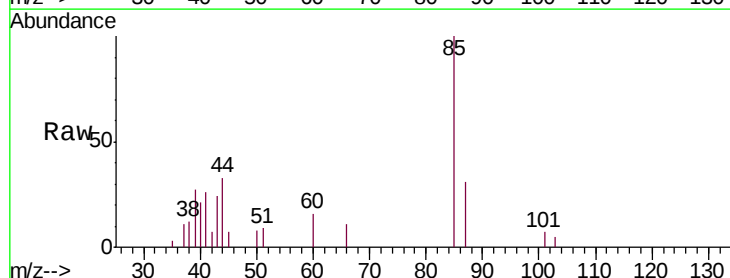
Acq: 25 Nov 2020 00:17

Tgt Ion: 85 Resp: 7126

Ion Ratio Lower Upper

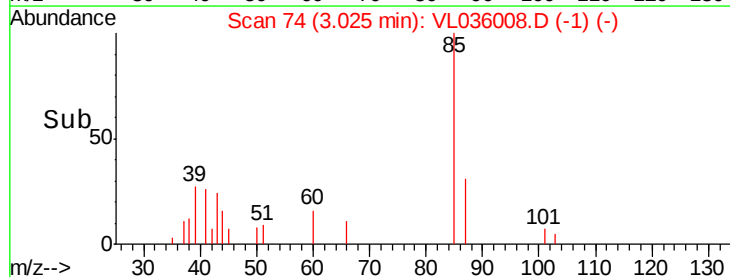
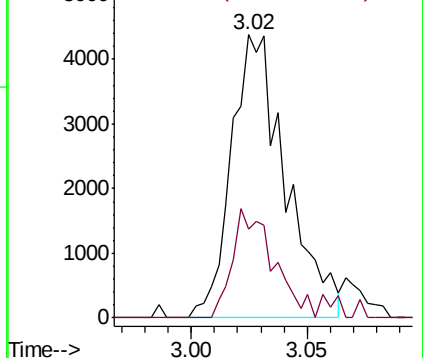
85 100

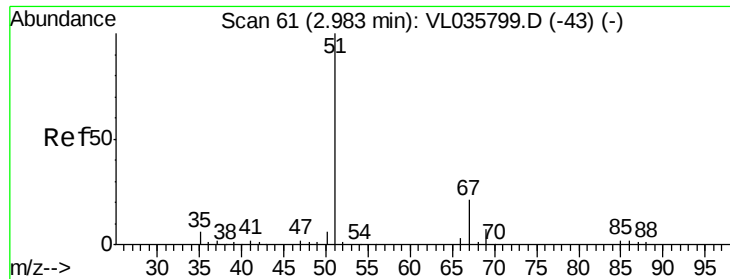
87 31.5 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.055 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036008.D

Acq: 25 Nov 2020 00:17

Instrument :

MSVOA_L

ClientSampleId :

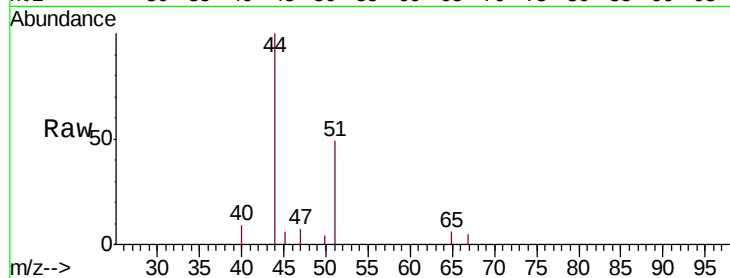
BFB

Tgt Ion: 51 Resp: 7536

Ion Ratio Lower Upper

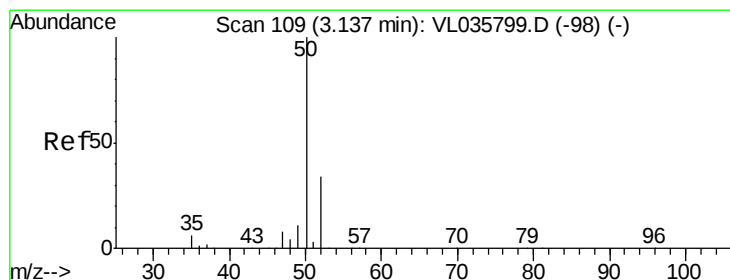
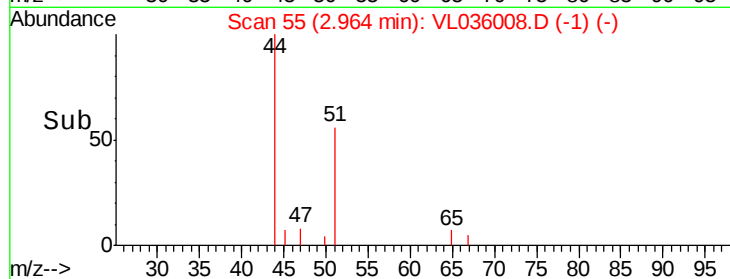
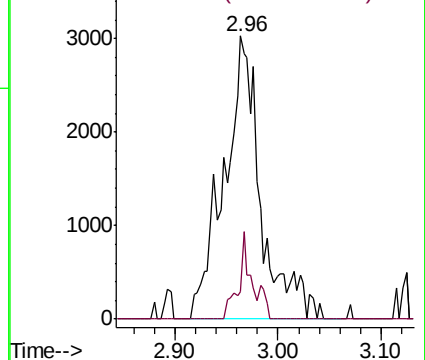
51 100

67 11.6 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL036008.D

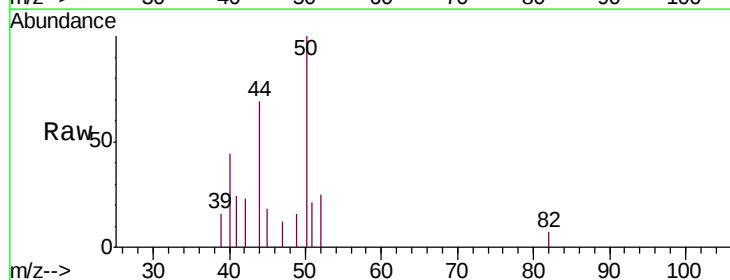
Acq: 25 Nov 2020 00:17

Tgt Ion: 50 Resp: 3438

Ion Ratio Lower Upper

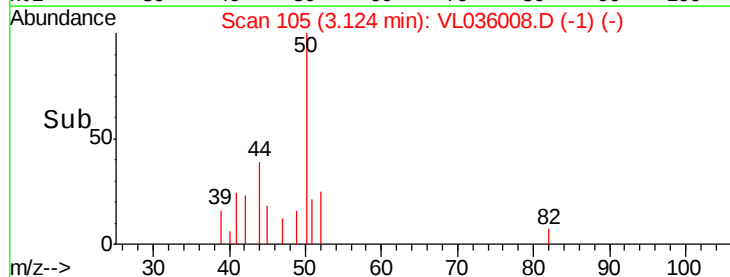
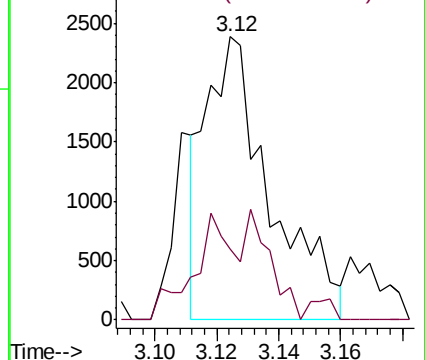
50 100

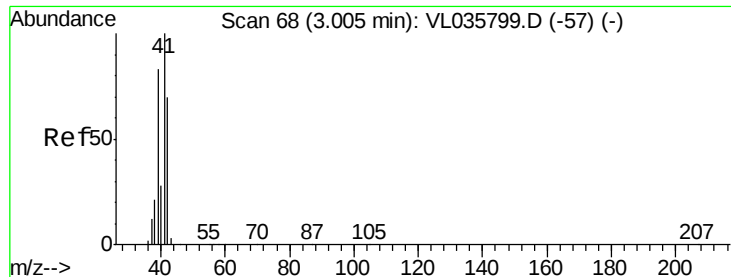
52 28.4 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.131 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036008.D

Acq: 25 Nov 2020 00:17

Instrument :

MSVOA_L

ClientSampleId :

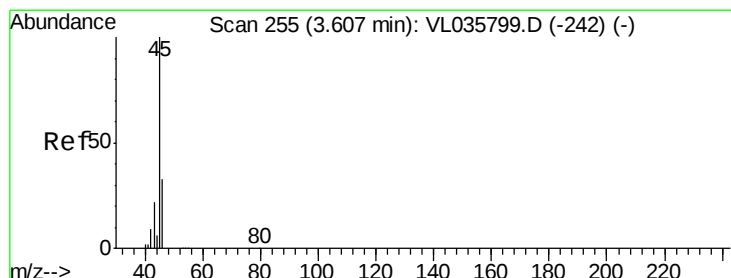
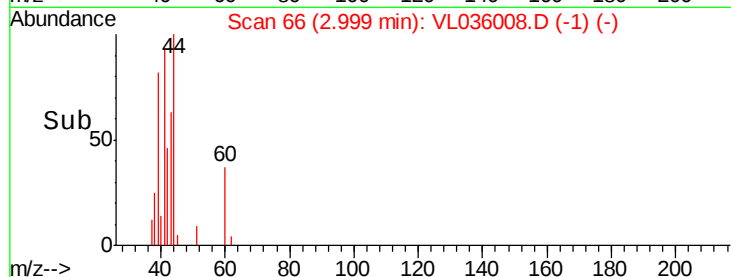
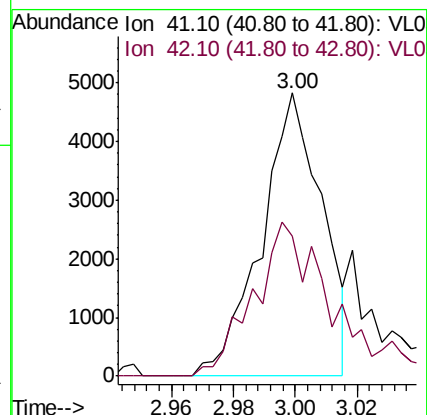
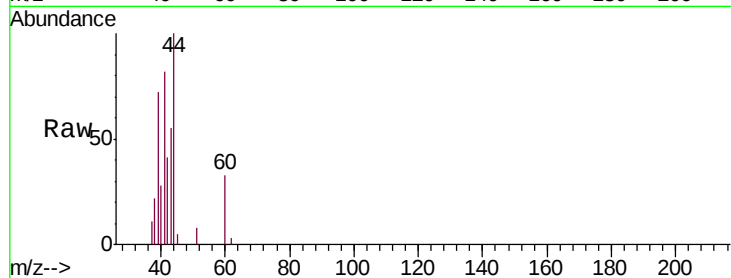
BFB

Tgt Ion: 41 Resp: 6551

Ion Ratio Lower Upper

41 100

42 75.1 56.2 84.4



#13

Ethanol

Concen: 2.389 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL036008.D

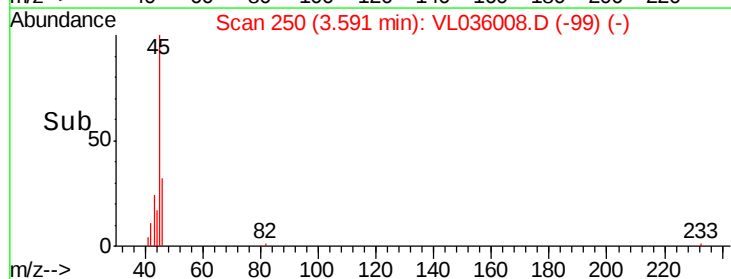
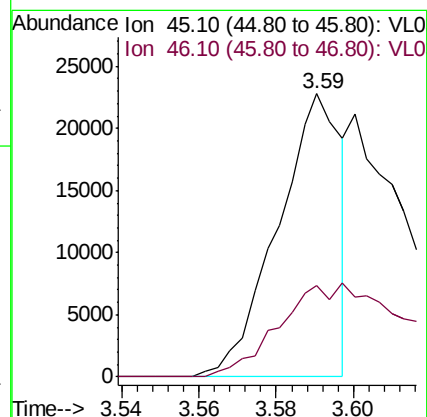
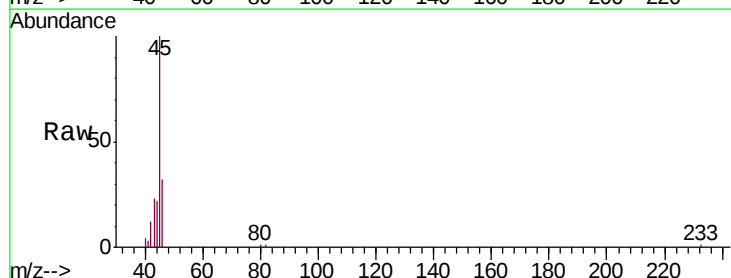
Acq: 25 Nov 2020 00:17

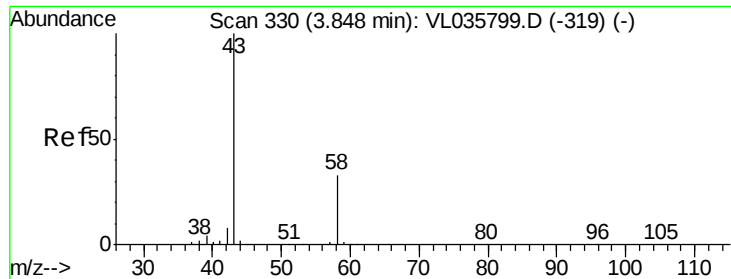
Tgt Ion: 45 Resp: 25936

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#





#15

Acetone

Concen: 0.890 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL036008.D

Acq: 25 Nov 2020 00:17

Instrument :

MSVOA_L

ClientSampleId :

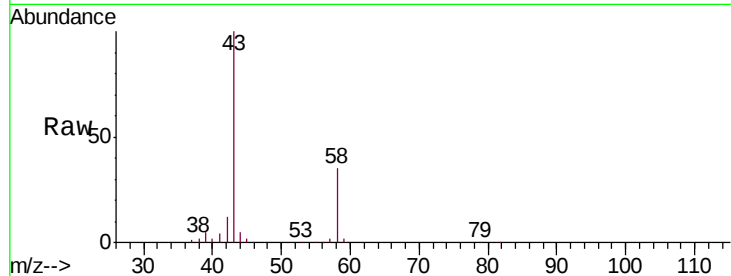
BFB

Tgt Ion: 43 Resp: 108681

Ion Ratio Lower Upper

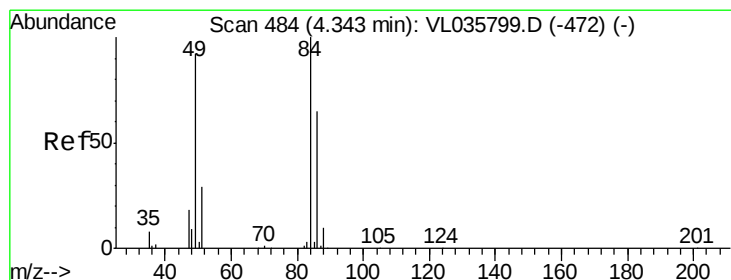
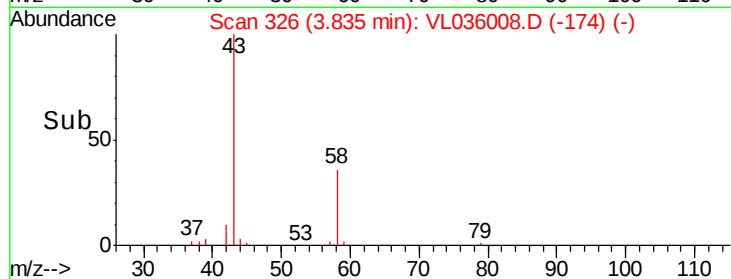
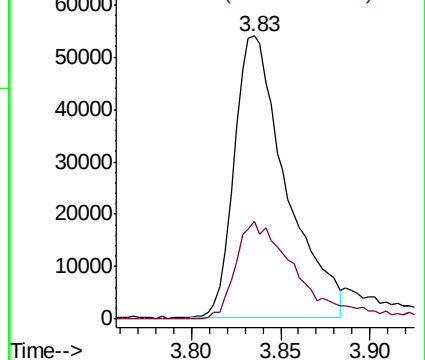
43 100

58 41.6 27.5 41.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.100 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL036008.D

Acq: 25 Nov 2020 00:17

Tgt Ion: 84 Resp: 867763

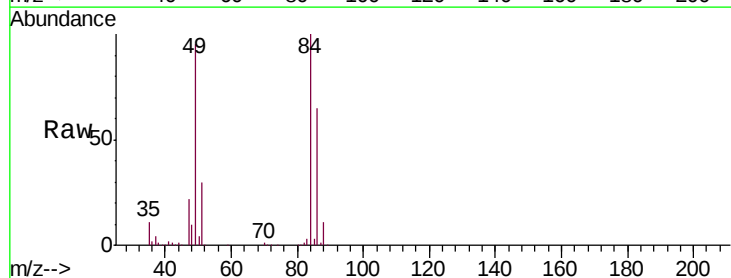
Ion Ratio Lower Upper

84 100

49 95.2 73.8 110.8

51 30.3 23.0 34.4

86 64.5 52.1 78.1

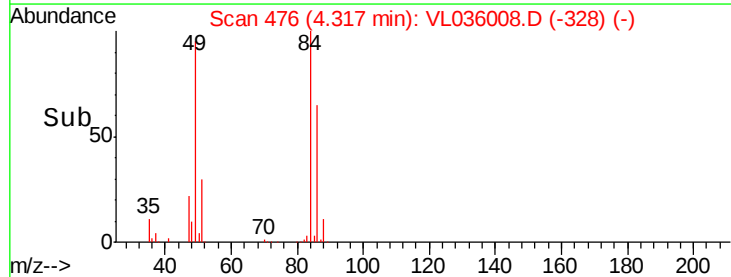
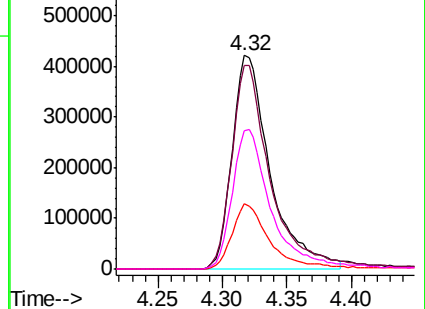


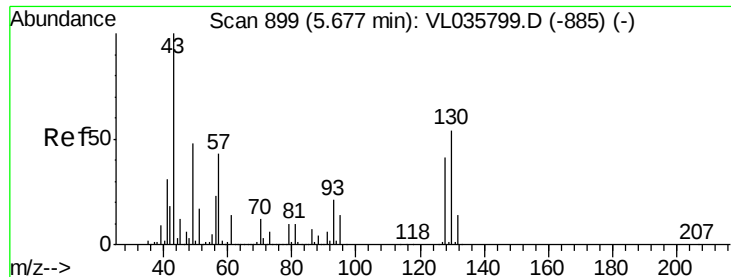
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

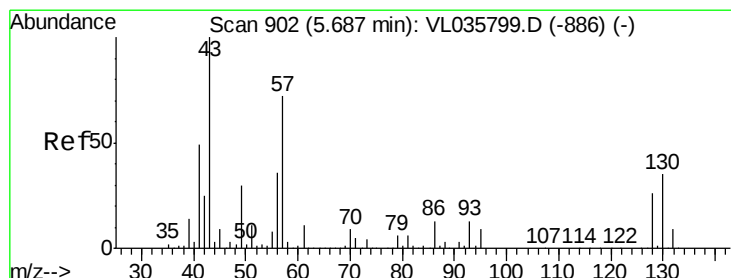
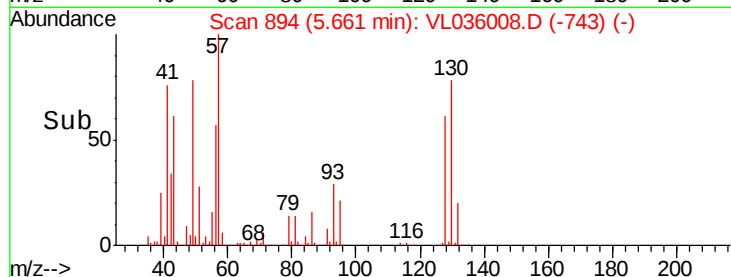
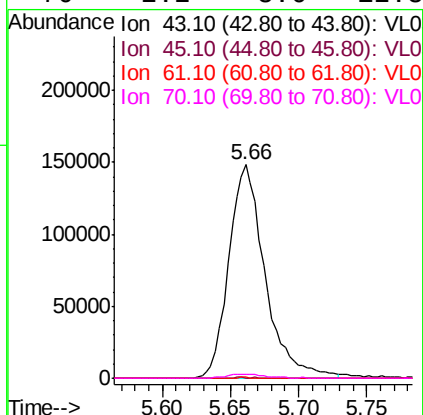
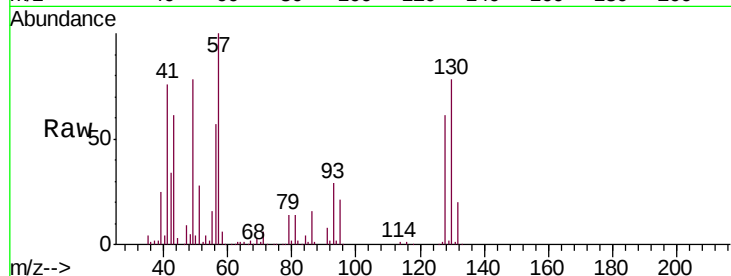




#25
Ethyl Acetate
Concen: 1.138 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL036008.D
Acq: 25 Nov 2020 00:17

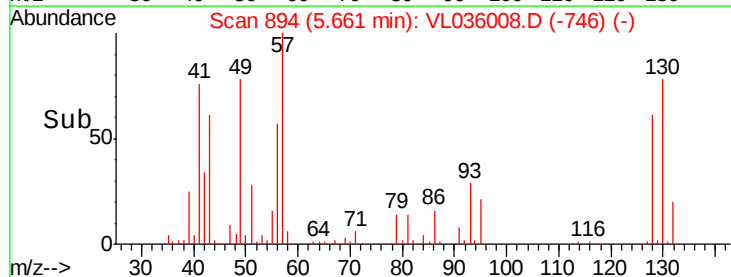
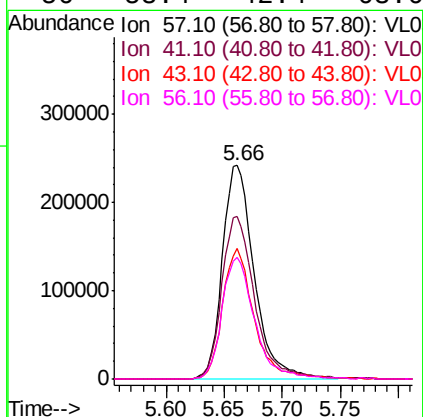
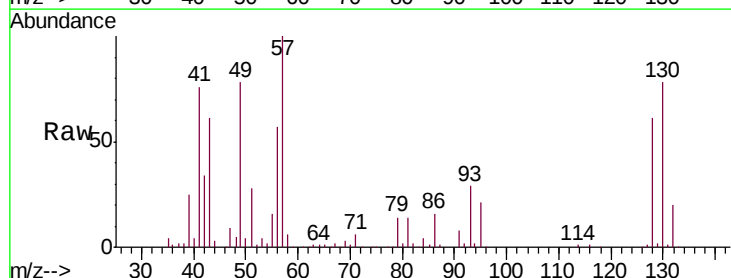
Instrument :
MSVOA_L
ClientSampleId :
BFB

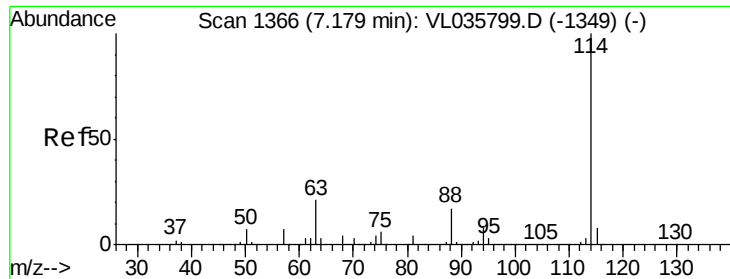
Tgt Ion:	43	Resp:	273700
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.5	12.7#
61	0.3	10.7	16.1#
70	2.2	8.6	12.8#



#26
Hexane
Concen: 3.465 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL036008.D
Acq: 25 Nov 2020 00:17

Tgt Ion:	57	Resp:	459485
Ion	Ratio	Lower	Upper
57	100		
41	79.1	58.9	88.3
43	60.5	150.2	225.2#
56	58.4	42.4	63.6

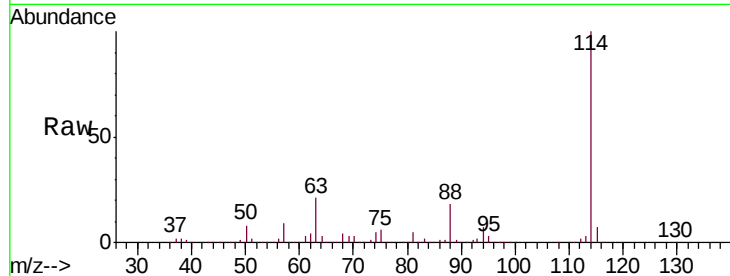




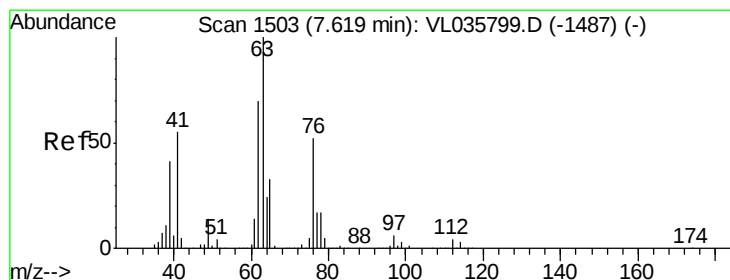
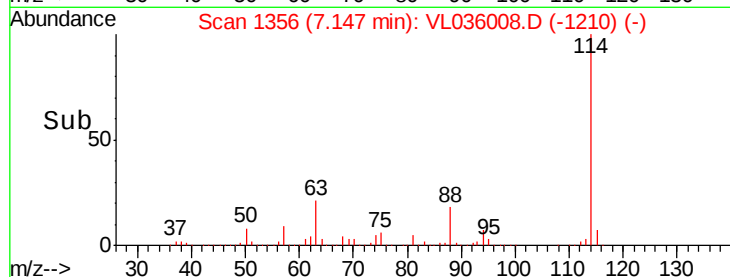
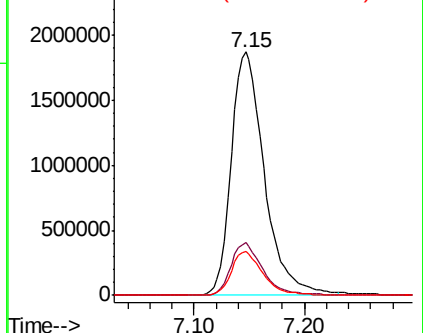
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL036008.D
 Acq: 25 Nov 2020 00:17

Instrument :
 MSVOA_L
 ClientSampled :
 BFB

Tgt Ion:114 Resp: 3905005
 Ion Ratio Lower Upper
 114 100
 63 21.1 16.1 24.1
 88 17.7 13.7 20.5

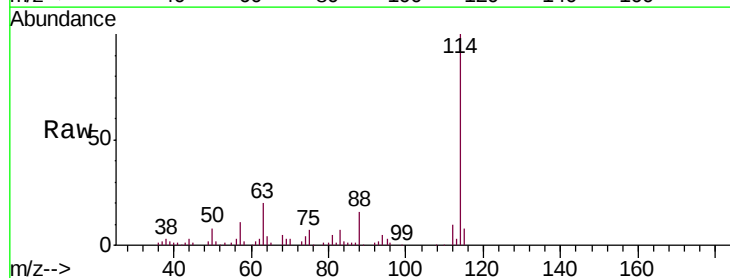


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

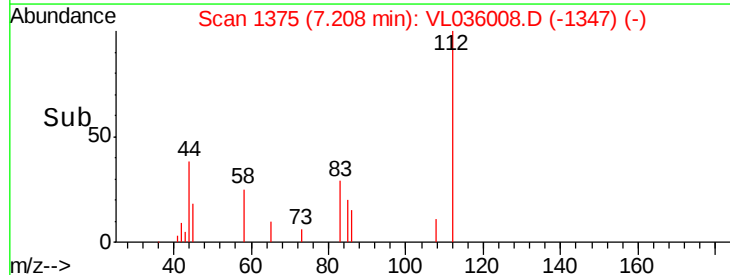
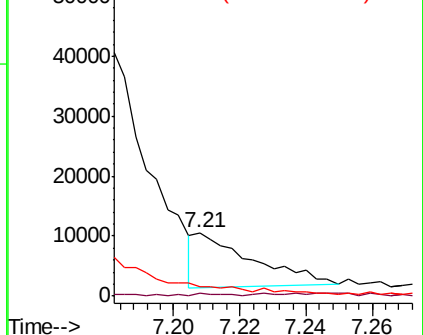


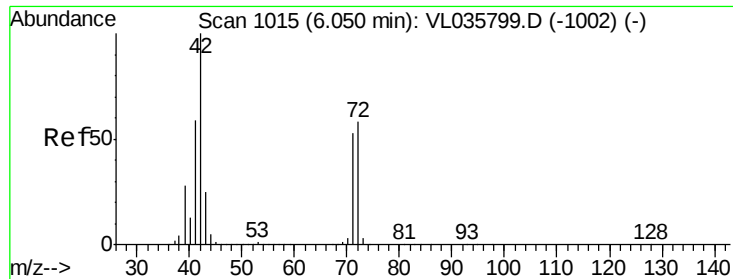
#39
 1,2-Dichloropropane
 Concen: 0.112 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.41 min
 Lab File: VL036008.D
 Acq: 25 Nov 2020 00:17

Tgt Ion: 63 Resp: 10901
 Ion Ratio Lower Upper
 63 100
 41 5.3 43.8 65.6#
 62 16.8 56.2 84.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 2.254 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.39 min

Lab File: VL036008.D

Acq: 25 Nov 2020 00:17

Instrument :

MSVOA_L

ClientSampled :

BFB

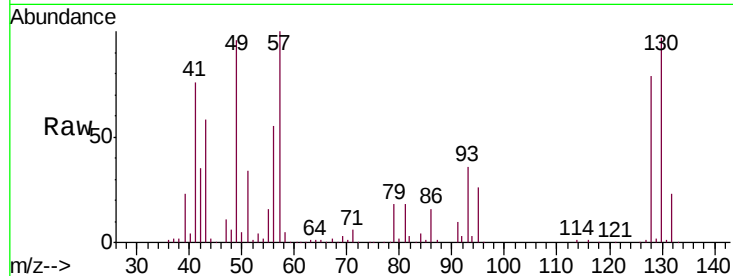
Tgt Ion: 42 Resp: 162270

Ion Ratio Lower Upper

42 100

72 1.1 45.4 68.0#

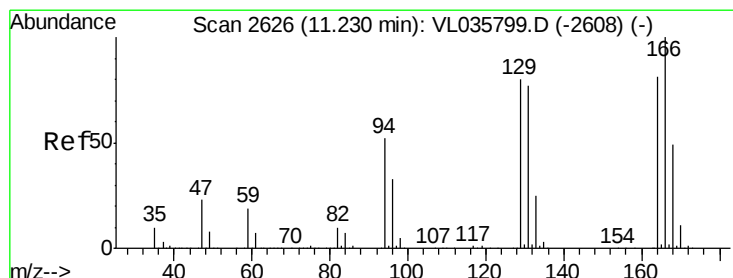
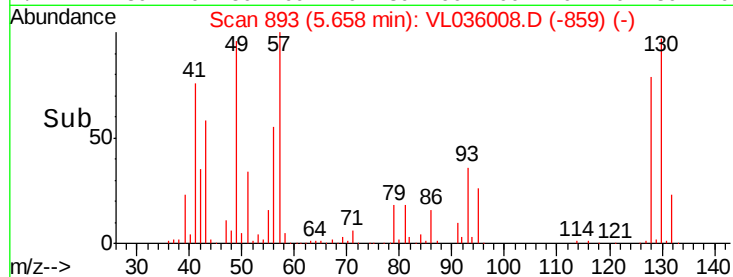
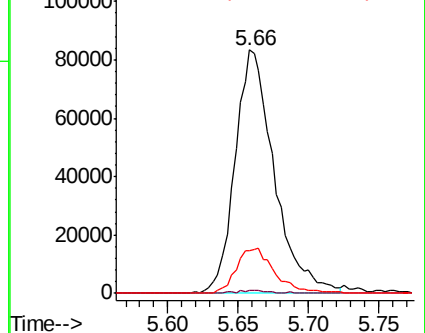
71 18.3 43.4 65.2#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#52

Tetrachloroethene

Concen: 0.649 ppbv

RT: 11.19 min Scan# 2615

Delta R.T. -0.04 min

Lab File: VL036008.D

Acq: 25 Nov 2020 00:17

Tgt Ion: 164 Resp: 89197

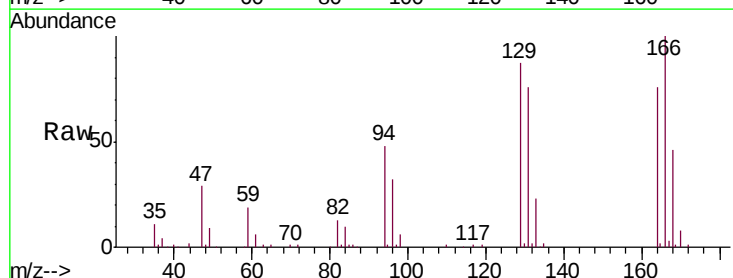
Ion Ratio Lower Upper

164 100

166 131.1 99.3 148.9

129 113.6 79.3 118.9

131 99.1 76.5 114.7

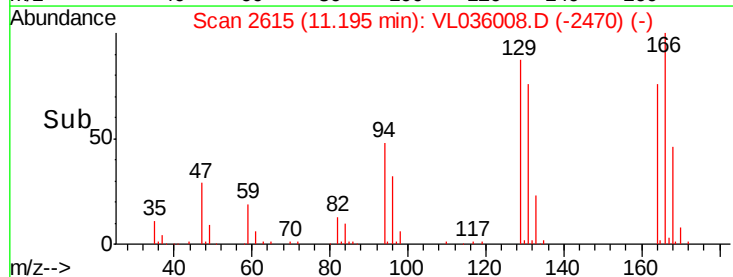
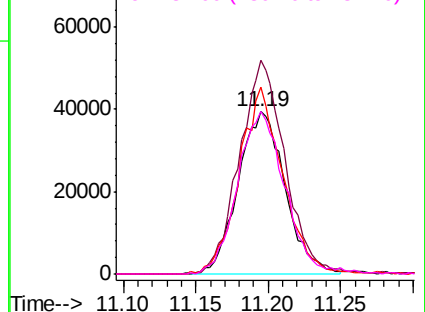


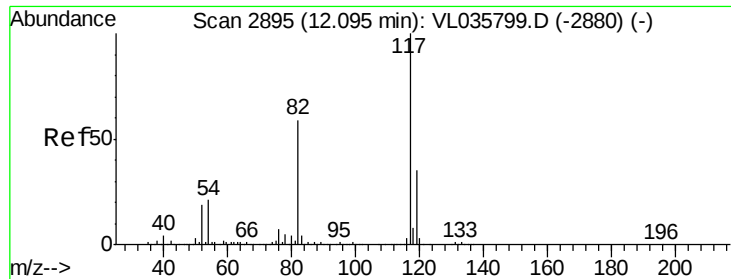
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

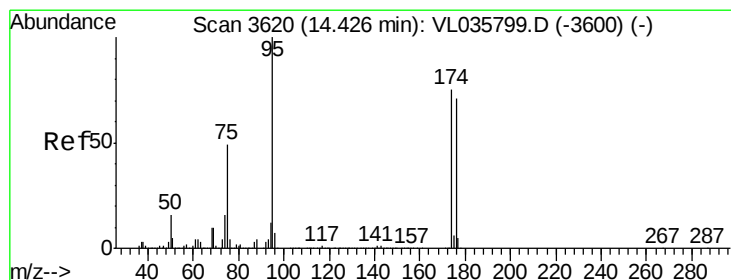
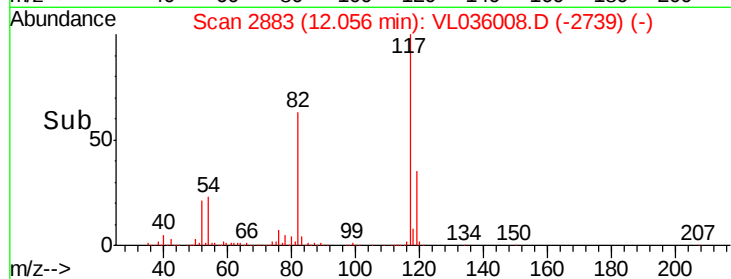
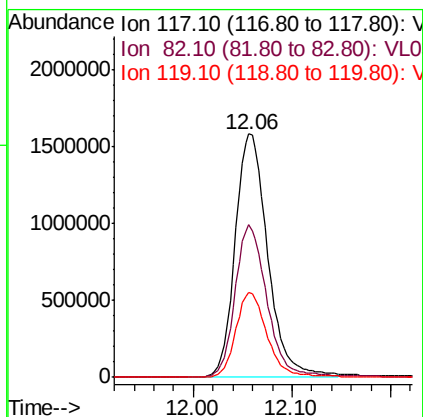
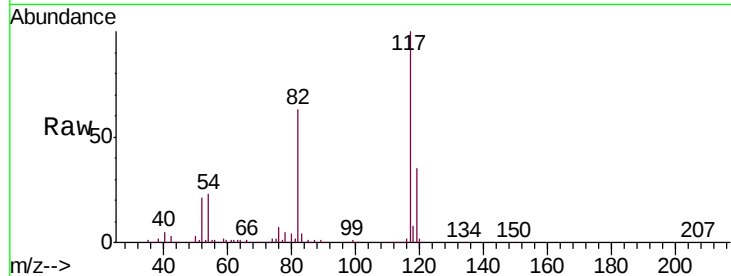




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.04 min
Lab File: VL036008.D
Acq: 25 Nov 2020 00:17

Instrument :
MSVOA_L
ClientSampleId :
BFB

Tgt Ion: 117 Resp: 3636439
Ion Ratio Lower Upper
117 100
82 62.3 50.6 76.0
119 34.2 52.6 78.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.735 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL036008.D
Acq: 25 Nov 2020 00:17

Tgt Ion: 95 Resp: 2773518
Ion Ratio Lower Upper
95 100
174 70.5 59.8 89.6
175 5.0 4.3 6.5

